(d) 43 solar water pumping systems

(e) 50.60 kWp aggregate SPV capacity of solar power plants and generating systems.

Implementation of energy projects in the States

†2874. PROF. M.M. AGARWAL Will the Minister of NON-CONVENTIONAL ENERGY SOURCES be pleased to state:

(a) the details of the energy projects under implementation in the different States specially in U.P. at present;

(b) whether any such proposals have been pending with the Government for clearance; and

(c) if so, the details thereof?

THE MINISTER OF STATE OF THE MINISTRY OF NON-CONVENTIONAL ENERGY SOURCES (SHRI M. KANNAPPAN): (a) to (c) The Ministry is implementing a wide range of renewable energy programmes based on solar, wind, biomass and small hydro throughout the country, including Uttar Pradesh. The details of achievements made under major renewable energy programmes, State-wise as on 31.03.2002 are given in Statement-I *(See* below). The details of various renewable energy projects under implementation and those pending clearance in Uttar Pradesh are given in Statement-ll *(See* below). Proposals are approved depending upon techno-economic feasibility, fulfilment of terms and conditions as per provisions contained in respective schemes and availability of funds.

†Original notice of the question was received in Hindi.

Statement-I

State-wise Cumulative Achievement Made Under Major Renewable Energy Programmes

AS ON 31.03.2002

SI. No.	STATES/UT	Biogas Plants	CBP/ IBP/ NBP	Impro-1 ved Chulha	Energ Parks	IREP	SOLAR PHOTOVOLTAIC				Water umping WIND MILLS	SPV Pumps	Aero-Genera-tors/ Hybrid Sys-tems	Solar Cooker
							SLS	HLS	SL	PP				
		(Nos.)	(Nos.)	(Nos. in lakh)	(Nos.)	(Nos.)	(Nos.)	(Nos.)	(Nos.)	(kWp)	(Nos.)	(Nos.)	(Nos.)	(Nos.)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Andhra Pradesh	333962	132	40.42	15	32	3520	1033	27707	20.6	2	583	16	11984
2	Arunachal Pradesh	1514	0	0.43	3	10	738	750	4937	7.9	0		0	530
3	Assam	51269	2	6.04	11	21	98	2337	541	3	3	45	6	80
4	Bihar & Jharkhand	121979	44	11.87	10	56	705	781	44649	0	42	130	0	730
5	Goa	3355	21	1.21	2	5	69	51	443	1.72	0	15	0	1499
6	Gujarat	351745	165	15.3	9	25	1764	2552	31603	14	348	27	0	64411
7	Haryana	44152	59	11.15	13	38	612	9666	32727	24.2	0	117	0	19615
8	Himachal Pradesh	43937	8	6.64	9	45	1319	10848	20697	0	0	6	0	26877
9	Jammu & Kashmir	1965	4	4.48	7	28	389	12519	9202	40	0	17	0	345
10	Karnataka	339567	63	16.44	11	42	865	4156	7334	9	20	307	7.75	250
11	Kerala	79182	163	9.45	12	44	815	8689	39681	44.7	79	713	8	194
12	Madhya Pradesh & Chhattisgarh	207202	128	29.32	14	85	6077	1316	9412	22.4	0	78	0178204	
1	3 Maharashtra	675097	484	24.63	18	37	3388	721	8680	6.44	26	160	34.3	55734

14 Manipur	1956	4	0.71	10	19	370	650	3883	11	0	12	0	365
15 Meghalaya	2209	4	0.22	6	16	593	540	4875	38	0	5	0	1164
16 Mizoram	2818	0	0.52	7	11	315	1645	5812	0	0	32	0	110
17 Nagaland	1667	7	0.38	5	25	271	143	95	6	0	0	0	0
18 Onssa	185690	45	22.17	8	45	5666	2686	7823	36.52	0	3	0	3169
19 Punjab	68762	668	11.49	16	40	1666	2520	14495	46	0	866	0	22050
20 Rajasthan	66556	71	26.08	10	36	6395	28464	4716	25.8	222	253	4	36600
21 Sikkim	3475	0	0.86	3	4	127	310	720	0	0	0	0	20
22 Tamil Nadu	201395	289	28.09	13	21	2272	471	12086	26	49	750	24.5	1355
23 Tripura	1719	0	0.59	8	6	760	2238	17805	24.57	0	0	0	79
24 Uttar Pradesh 8 Uttaranchal	371587	1415	40.59	20	115	800	83142	79842	178.9	0	212	0	50309
25 West Bengal	203626	68	37.66	7	34	1461	25916	3662	352.3	0	47	0	7929
26 Andaman & Nicobar	137	0	0.33	6	5	358	405	796	149.1	2	5	0	59
27 Chandigarh	97	0	0.19	3	1	0	275	1675	0	0	14	0	1523
28 Dadra & Nagar Haveli	169	0	0.15	0	1	0	0	0	0	0	1	0	81
29 Daman & Diu	0	0	0.01	0	1	0	0	0	0	0	0	0	0
30 Delhi	676	56	2.66	10	5	301	0	4753	15	0	84	0	27990
31 Lakshadweep	0	0	0.05	0	1	0	0	0	85	0	0	0	0
32 Pondicherry	573	1	0.43	2	6	62	13	637	0	0	18	5	88
33 Others tor all States	0	0		10	0	0	1895	26399	0	0	0	0	11583
TOTAL	3368038	3901	350.56	278	860	41776	206732	427687	1188	793	4500	105.55	524927

SPV = Solar Photovoltaic; SHP = Small Hydro Power; SLS = Street Lighting System; HLS = Homo Lighting System; SL = Solar Lanterns; PP = Power Plants; MW = Mega Watt; kWp = kilowatt peak

State-wise cumulative achievement made under major renewable energy programmes as on 31.03.2002

SI. No.	States/UT	SHP (MW)	Wind Power (MW)	Biomass Powei (MW)	Biomass Gasifier (kW)	Solar Power (kWp)	Urban & Industrial Group (MW)	Battery operated vehicles Development (Nos.)
1	Andhra Pradesh	149.21	92.60	101.20	15384	275.00	11.95	7
2	Arunachal Pradesh	32.10	0.00	0.00	180	0.00		
3	Assam	2.00	0.00	0.00	123	0.00		
4	Bihar & Jharkhand	48.95	000	0.00	20	0.00		
5	Goa	0.05	0.00	0.00	22	0.00		
6	Gujarat	7.00	166.90	0.50	11361	0.00	2.45	7.00
7	Haryana	48.30	0.00	4.00	964	0.00		
8	Himachal Pradesh	91.84	0.00	0.00	7	0.00		
9	Jammu & Kashmir	93.24	0.00	0.00	120	0.00		10
10	Kamataka	156.90	68.60	75.60	4499	30.00	1.00	9.00
11	Kerala	69.52	2.00	0.00	720	25.00		7
12	Madhya Pradesh & Chhattisgarh	39.16	22.60	11.00	4529	339.00	2.70	9.00
13	Maharashtra	200.33	399.20	24.50	3823	185.00	1.90	5.00
14	Manipur	4.70	0.00	0.00	0	0.00		
15	Meghalaya	30.71	0.00	0.00	0	0.00		1
16	Mizoram	14.76	0.00	0.00	0	0.00		
17	Nagaland-	19.87	0.00	0.00	0	0.00		1
18	Orissa	1.30	0.00	0.00	72	0.00		4
19	Punjab	103.20	0.00	12.00	700	50.00	0.75	7.00
20	Rajasthan	23.85	16.10	0.00	218	50.00		4

21	Sikkim		32.60	0.00	0.00	0	0.00		
22	Tamil Nadu		73.90	857.50	106.0	2553	211.00	0.23	18.00
23	Tripura		16.01	0.00	0.00	1000	0.00		
24	Uttar Pradesh &	Uttaianchal	79.65	0.00	46.50	1731	325 00	1.00	32.00
25	West Bengal		89.28	1.10	0.00	2715	50 00		11
26	Andaman & Nicobar		5.25	0.00	0.00	167	0.00		
27	Chandigarh			0.00	0.00	0	50.00		
28	Oadra & Nagar	Haveli		0.00	0.00	0	000		
29	Daman & Diu			0.00	0.00	0	0.00		
30	Delhi			0.00	0.00	74	0.00		109
31	Lakshadweep			0.00	0.00	0	400.00		
32	Pondicherry			0.00	0.00	0	0.00		10
33	Others			0.00	318	318	0.00		3
	TOTAL:		1433.68	1628.20	381.30	51300	1990.00	21.98	247.00

SPV = Solar Photovoltaic; SHP = Small Hydro Power, SLS = Street Ligting System; HLS = Home Lighting System SL = Solar Lanterns. PP = Power Plants; MW = Mega Watt; kWp = kilowatt peak

Statement-ll

Details of various renewable energy projects under implementation and projects pending for clearance in Uttar Pradesh

SI. No	Project/ Programme	Under Installation/ Implementation	Pending for clearance
1	Solar Photovoltaic Power	One grid interactive solar power project of 25 kWp at Lucknow.	—
2	Biomass Power/ Cogeneration	Five biomass power/ cogeneration projects with aggregate capacity of 34.00 MW	—
3	Solar Photovoltaic (SPV)	i. 6000 nos. of solar home lighting systems	i. Installation of 1.000 solar home systems, 200 solar generators and 100 grid generators in Health Centres.
		ii. 200 nos. of solar street lighting System	ii. Installation of 800 solar generators for computers in unelectrified primary schools.
		iii. Electrification of 14 remote villages through installation of 220 kwp SPV power plants.	iii. Illumination of 45 unelectrified villages/hamlets.
4	Urban & Industrial Wastes	i. One project of power generation from Municipal Solid Wastes at Lucknow. ii. One project of power generation from slaughter house solid waste at Aligarh.	—
5.	Biomass Gasifier	—	Setting up of a biomass gasifier system at Lucknow.
6.	Small Hydro Power (SHP)	One SHP project of 3.6 MW capacity in Jhansi district.	—

kWp = Kilo watt peak; MW - Megawatt; W = watt